

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/710,444C

Source: TFW16

Date Processed by STIC: 2-8-05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: US/09/710,444C : CRF Edit Date: 2-8-05
Edited by: TL

 Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

 Corrected the SEQ ID NO. Sequence numbers edited were:

 Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

✓ Deleted: ✓ invalid beginning/end-of-file text ; page numbers

 Inserted mandatory headings/numeric identifiers, specifically:

 Moved responses to same line as heading/numeric identifier, specifically:

 Other:



IFW16

RAW SEQUENCE LISTING

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:05

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\02082005\I710444C.raw

3 <110> APPLICANT: Riechmann, Lutz
 4 Kristensen, Peter
 5 Jestin, Jean-Luc
 6 Winter, Gregory
 8 <120> TITLE OF INVENTION: Selection System
 10 <130> FILE REFERENCE: 8039/1090
 12 <140> CURRENT APPLICATION NUMBER: 09/710,444C
 C--> 13 <141> **CURRENT FILING DATE: 2000-11-10**
 15 <150> PRIOR APPLICATION NUMBER: GB 9810223.9
 16 <151> PRIOR FILING DATE: 1998-05-13
 18 <150> PRIOR APPLICATION NUMBER: GB 9810228.8
 19 <151> PRIOR FILING DATE: 1998-05-13
 21 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01526
 22 <151> PRIOR FILING DATE: 1999-05-13
 24 <160> NUMBER OF SEQ ID NOS: 79
 26 <170> SOFTWARE: PatentIn version 3.1
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 17
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Synthetic linker peptide sequence with protease recognition
 sites
 35 .
 37 <220> FEATURE:
 38 <221> NAME/KEY: MISC_FEATURE
 39 <222> LOCATION: (1)..(17)
 40 <223> OTHER INFORMATION: Synthetic linker peptide sequence with protease recognition
 sites
 43 <400> SEQUENCE: 1
 45 Pro Ala Gly Leu Ser Glu Gly Ser Thr Ile Glu Gly Arg Gly Ala His
 46 1 5 10 15
 49 Glu
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 57
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
 61 <220> FEATURE:
 62 <221> NAME/KEY: misc_feature
 63 <222> LOCATION: (1)..(57)
 64 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
 67 <400> SEQUENCE: 2

(pg. 2)

68 ggcacctca gaacgtacc ccacctcag aggcggctg ggcgccacc ctcagag

57

RAW SEQUENCE LISTING

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:05

Input Set : A:\pto.kd.TXT

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71 <210> SEQ ID NO: 3
72 <211> LENGTH: 89
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: (1)..(89)
82 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
85 <400> SEQUENCE: 3
86 ggtggcgccc cagccggcct ttctgagggg tcgactatag aaggacgagg gcccagcgaa      60
88 ggaggtgggg tacccttc tgagggtg      89
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 89
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (1)..(89)
102 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
105 <400> SEQUENCE: 4
106 ccaccctcag aagggggtac cccacctcct tcgctgggcc ctgccttc tatagtcgac      60
108 ccctcagaaa ggccggctgg gccgccacc      89
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 24
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (1)..(24)
122 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
125 <400> SEQUENCE: 5
126 gcgatggttg ttgtcattgt cggc      24
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 24
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (1)..(24)
140 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
143 <400> SEQUENCE: 6

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RAW SEQUENCE LISTING

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:05

Input Set : A:\pto.kd.TXT

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144 aaaagaaacg caaagacacc acgg                                24
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 23
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (1)..(23)
158 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
161 <400> SEQUENCE: 7
162 cctcctgagt acggtgatac acc                                23
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 24
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones.
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (1)..(24)
176 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones
179 <400> SEQUENCE: 8
180 gtaaattcag agactgcgct ttcc                                24
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 26
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones.
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (1)..(26)
194 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones
197 <400> SEQUENCE: 9
198 attttcgggc atagccccct tattag                                26
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 65
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Synthetic PCR primer recognizing FLAG tag nucleotide
sequence.
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (1)..(65)
212 <223> OTHER INFORMATION: Synthetic PCR primer recognizing FLAG tag nucleotide
sequence
215 <400> SEQUENCE: 10
216 caaacgggcg gccgcagact acaaggatga cgacgacaag gaaactgttg aaagttgttt    60

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RAW SEQUENCE LISTING

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:05

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\02082005\I710444C.raw

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218 agcaa 65
221 <210> SEQ ID NO: 11
222 <211> LENGTH: 51
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
228     ones.
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (1)..(51)
233 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
234     ones
237 <400> SEQUENCE: 11
238 cccctcagaa aggcggctg ggccgccgcc agcattgaca ggagggttcag g 51
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 52
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
248     ones.
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (1)..(52)
253 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
254     ones
257 <400> SEQUENCE: 12
258 gaaggaggtg gggtagccgg ttccgagggt ggttcgggtt ccggtgattt tg 52
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 36
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (1)..(36)
272 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
275 <400> SEQUENCE: 13
276 ccctcggaac cgttacccca gctgcttcgt gggccc 36
279 <210> SEQ ID NO: 14
280 <211> LENGTH: 47
281 <212> TYPE: DNA
282 <213> ORGANISM: Bacillus amyloliquefaciens
284 <400> SEQUENCE: 14
285 ctggcgcgcg cccagccggc cctgcacagg ttatcaacac gtttgac 47
288 <210> SEQ ID NO: 15
289 <211> LENGTH: 43

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RAW SEQUENCE LISTING

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:05

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\02082005\I710444C.raw

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290 <212> TYPE: DNA
291 <213> ORGANISM: Bacillus amyloliquefaciens
293 <400> SEQUENCE: 15
294 ctcggaaccg gtacctctga tttttgtaaa ggtctgataa gcg          43
297 <210> SEQ ID NO: 16
298 <211> LENGTH: 44
299 <212> TYPE: DNA
300 <213> ORGANISM: Gallus gallus
302 <400> SEQUENCE: 16
303 ggcgggcccag cggcctttc tctctctgac gaggacttca aggc          44
306 <210> SEQ ID NO: 17
307 <211> LENGTH: 41
308 <212> TYPE: DNA
309 <213> ORGANISM: Gallus gallus
311 <400> SEQUENCE: 17
312 cctcggaacc ggtaccgaag agtcctttct ccttcttgag g          41
315 <210> SEQ ID NO: 18
316 <211> LENGTH: 18
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (1)..(18)
326 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction
329 <400> SEQUENCE: 18
330 tacgccaagc ttgcatgc          18
333 <210> SEQ ID NO: 19
334 <211> LENGTH: 17
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
341 <220> FEATURE:
342 <221> NAME/KEY: misc_feature
343 <222> LOCATION: (1)..(17)
344 <223> OTHER INFORMATION: Synthetic PCR primer used for library constuction
347 <400> SEQUENCE: 19
348 ctgcacctgg gccatgg          17
351 <210> SEQ ID NO: 20
352 <211> LENGTH: 17
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
359 <220> FEATURE:
360 <221> NAME/KEY: misc_feature
361 <222> LOCATION: (1)..(17)

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/710,444C

DATE: 02/08/2005
TIME: 18:11:06

Input Set : A:\pto.kd.TXT
Output Set: N:\CRF4\02082005\I710444C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; N Pos. 23,24,29,55,56,81,97,101,102

Seq#:22; N Pos. 18,19,20,21

Seq#:26; N Pos. 14,15,20,46,47

Seq#:31; N Pos. 22,38,42,43

Seq#:34; N Pos. 22,43,44

Seq#:40; N Pos. 9,10,11,12

Seq#:51; N Pos. 19,20,21,22,23,24

Seq#:76; Xaa Pos. 36,38

Seq#:79; Xaa Pos. 1

VERIFICATION SUMMARY

DATE: 02/08/2005

PATENT APPLICATION: US/09/710,444C

TIME: 18:11:06

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\02082005\I710444C.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:32
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0



IFW16

RAW SEQUENCE LISTING

DATE: 02/02/2005

PATENT APPLICATION: US/09/710,444C

TIME: 10:50:24

Input Set : A:\00023566.txt

Output Set: N:\CRF4\02022005\I710444C.raw

3 <110> APPLICANT: Riechmann, Lutz
 4 Kristensen, Peter
 5 Jestin, Jean-Luc
 6 Winter, Gregory
 8 <120> TITLE OF INVENTION: Selection System
 10 <130> FILE REFERENCE: 8039/1090
 12 <140> CURRENT APPLICATION NUMBER: 09/710,444C
 C--> 13 <141> CURRENT FILING DATE: 2000-11-10
 15 <150> PRIOR APPLICATION NUMBER: GB 9810223.9
 16 <151> PRIOR FILING DATE: 1998-05-13
 18 <150> PRIOR APPLICATION NUMBER: GB 9810228.8
 19 <151> PRIOR FILING DATE: 1998-05-13
 21 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01526
 22 <151> PRIOR FILING DATE: 1999-05-13
 24 <160> NUMBER OF SEQ ID NOS: 79
 26 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
Corrected Diskette Needed

(pg.1)

ERRORED SEQUENCES

1861 <210> SEQ ID NO: 79
 1862 <211> LENGTH: 4
 1863 <212> TYPE: PRT
 1864 <213> ORGANISM: Artificial sequence
 1866 <220> FEATURE:
 1867 <223> OTHER INFORMATION: Factor Xa protease cleavage sequence.
 1869 <220> FEATURE:
 1870 <221> NAME/KEY: MISC_FEATURE
 1871 <222> LOCATION: (1)..(1)
 1872 <223> OTHER INFORMATION: X can be either Ile or Leu.
 1876 <220> FEATURE:
 1877 <221> NAME/KEY: MISC_FEATURE
 1878 <222> LOCATION: (1)..(4)
 1879 <223> OTHER INFORMATION: Factor Xa proteolytic cleavage site.
 1882 <400> SEQUENCE: 79
 W--> 1884 Xaa Glu Gly Arg
 1885 1
 E--> 1889 ??
 E--> 1891 ??
 E--> 1892 (continued...)
 E--> 1894 (continued...)

deleted

VERIFICATION SUMMARY

DATE: 02/02/2005

PATENT APPLICATION: US/09/710,444C

TIME: 10:50:25

Input Set : A:\00023566.txt

Output Set: N:\CRF4\02022005\I710444C.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:32
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1889 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1889 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1891 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:79
L:1891 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1891 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=79
L:1892 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1892 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1894 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1894 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1894 M:252 E: No. of Seq. differs, <211> LENGTH:Input:4 Found:6 SEQ:79